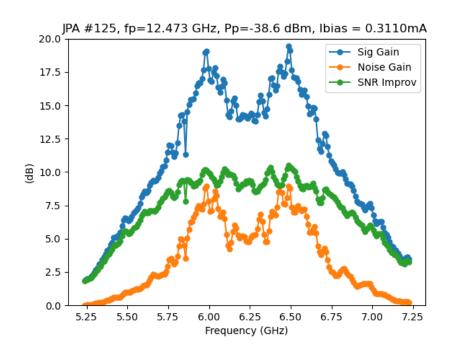


Cryogenic Testing Service

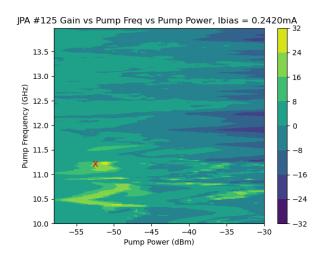
Certification Report for JPA-MCA01 with Raytheon JPA S/N # 000125: July 18, 2024

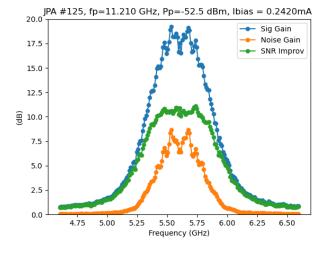


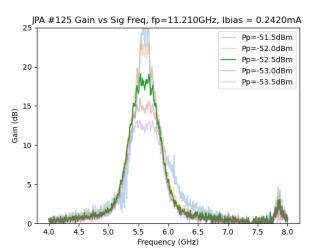
Sample JPA Tuneup

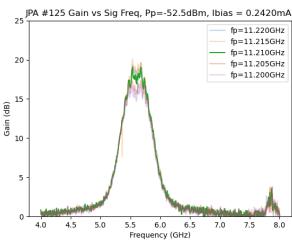


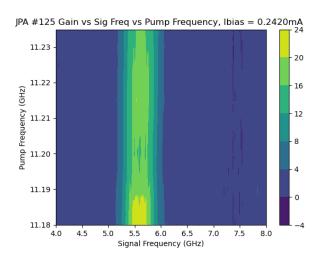
JPA Tuneup 1:

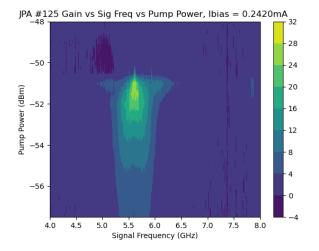




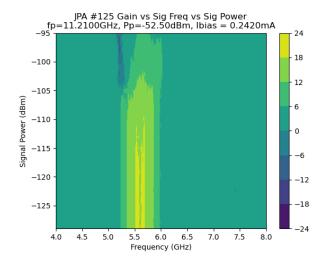


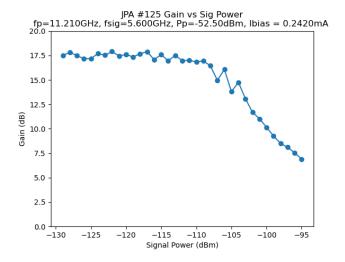


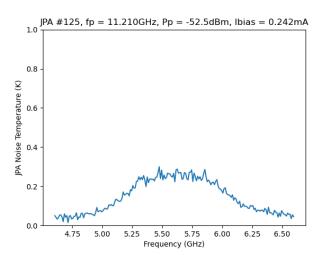


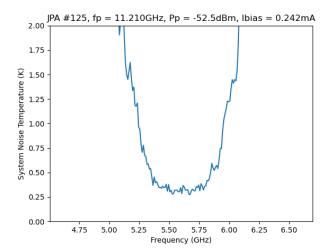


Sample JPA Tuneup 1 (cont.):

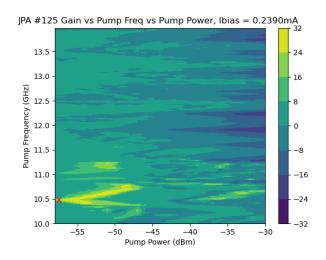


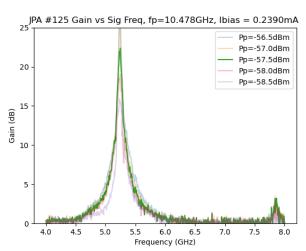


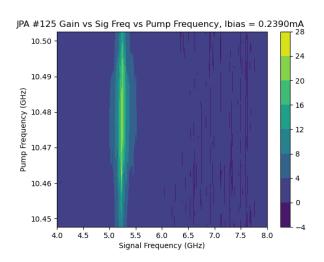


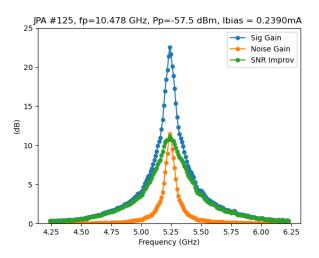


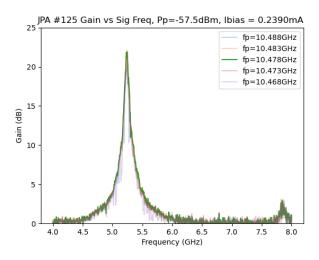
Sample JPA Tuneup 2:

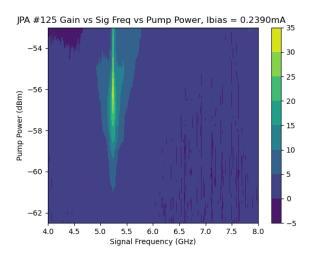




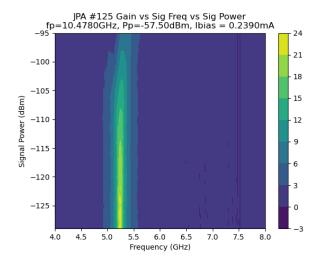


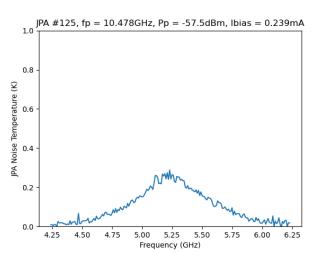


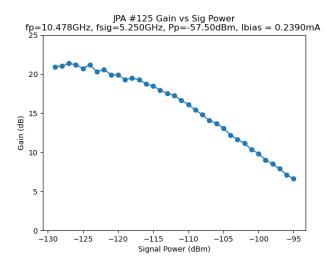


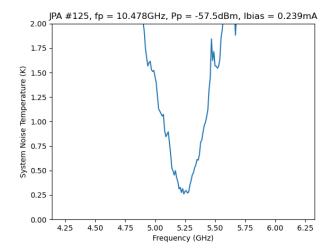


Sample JPA Tuneup 2 (cont.):

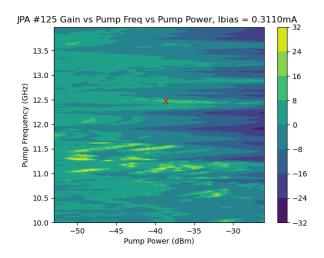


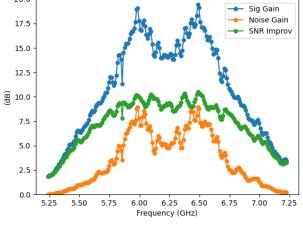




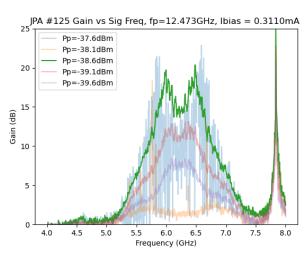


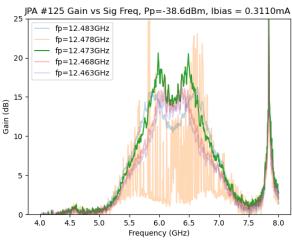
Sample JPA Tuneup 3:

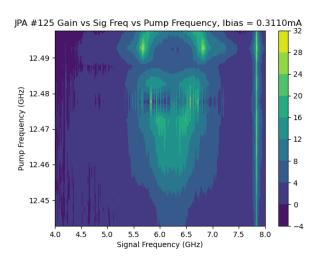


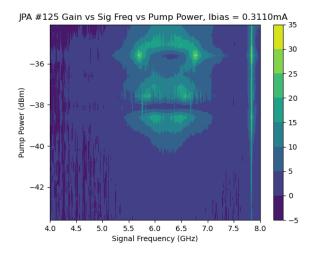


JPA #125, fp=12.473 GHz, Pp=-38.6 dBm, Ibias = 0.3110mA









Sample JPA Tuneup 3 (cont.):

